Given: Na, Mg, Ca, K

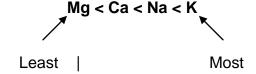
Problem: Place in order of increasing metallic activity (from least to most).

Aim: How can we predict which metal is more active?

metallic activity (MA) – the tendency of an element to lose electrons

Remember: <u>lower</u> ionization energy, <u>greater</u> tendency to lose electrons

Therefore, the predicted order of metallic activity is:



Note: Na vs. Ca "on a diagonal". Group is more important than Period.

metal hydroxide + phenolphthalein ====> pink

Therefore, <u>more</u> active metal, <u>faster</u> rate of reaction, <u>more</u> fizz